

Notice of Allowability	Application No.	Applicant(s)	
	10/501,944	POIKSELKA ET AL.	
	Examiner	Art Unit	
	ROBERT B. MCADAMS	2456	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 1/9/2012.
2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
3. ☒ The allowed claim(s) is/are 1-20,32-41,43 and 45.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. <input type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>5/14/2012</u>. 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other ____. |
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/KEVIN BATES/
Primary Examiner, Art Unit 2456

/R. B. M./
Examiner, Art Unit 2456

DETAILED ACTION

1. This Office Action is in response to the amendment filed on January 09, 2012.
2. Claims 1-20, 32-41, 43 and 45 are allowed.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jerry Stanton # 46,008 on 5/7/2012.

The application has been amended as follows:

1. (Currently Amended) A method, comprising:
detecting a change in subscription information of a subscriber;
checking whether a capability of ~~a network element~~ an old Serving Call State Control Function (S-CSCFo) serving a terminal device of said subscriber is still in accordance with said changed subscription information;
and
initiating, in response to a result of said checking being that said capability of said ~~network element~~ S-CSCFo serving said terminal device of said subscriber is not still in

accordance with said changed subscription information, a registration procedure for registering said terminal device of said subscriber to a new ~~serving network element~~ Serving Call State Control Function (S-CSCFn) that is in accordance with said changed subscription information.

2. (Currently Amended) A method according to claim 1, wherein said checking comprises checking whether said ~~serving network element~~ S-CSCFo is still capable of serving said terminal device of said subscriber based on said changed subscription information.

8. (Currently Amended) A method according to claim 1, wherein a configuration information is provided for determining subscribed services needing predetermined ~~serving network elements~~ S-CSCFs.

9. (Currently Amended) A method according to claim 1, wherein said checking further comprises:

transmitting a capability query comprising an information indicating at least one required capability to said ~~serving network element~~ S-CSCFo,

comparing capabilities of said ~~serving network element~~ S-CSCFo with said information about said at least one required capabilities, and

receiving an acknowledgement indicating the result of said comparing from said ~~serving network element~~ S-CSCFo.

10. (Currently Amended) A method according to claim 1, wherein said checking further comprises:

transmitting an information indicating at least one required capability and an identification of said ~~serving network element~~ S-CSCFo to an interrogating Call State Control Function network element (I-CSCF),

checking at said ~~interrogating network element~~ I-CSCF whether said ~~serving network element~~ S-CSCFo fulfills said at least one required capabilities, and

receiving an acknowledgement indicating the result of said checking from said ~~interrogating network element~~ I-CSCF.

11. (Currently Amended) A method according to claim 9, further comprising:
sending a de-register message for de-registering said terminal device to said ~~serving network element~~ S-CSCFo in response to the received result.

12. (Currently Amended) A method according to claim 11, wherein a re-registration procedure is initiated by said terminal device in response to a message issued by said ~~serving network element~~ S-CSCFo.

15. (Currently Amended) A method according to claim 9, wherein a selection function of said data network is initiated using said information about said at least one required capability, and a resulting identification information of said ~~new serving network~~

~~element S-CSCFn~~ is notified to a proxy ~~network element~~ Call State Control Function (P-CSCF) connected to said terminal device.

16. (Currently Amended) A method according to claim 15, wherein said notification is performed using an identification of said ~~proxy network element~~ P-CSCF stored at a subscriber database.

17. (Currently Amended) A method according to claim 16, wherein said identification is requested from said ~~serving network element~~ S-CSCFo using said de-register message.

18. (Currently Amended) A method according to claim 15, wherein said selection function is performed by an ~~interrogating network element~~ I-CSCF.

19. (Currently Amended) A method according to claim 1, wherein said checking is performed by requesting from said data network a capability list comprising required capabilities of ~~serving network element~~ S-CSCFs.

20. (Currently Amended) A method according to claim 19, wherein said capability list is requested from an ~~interrogating network element~~ I-CSCF.

32. (Currently Amended) An apparatus, comprising:

a memory comprising computer program code; and
a processor;
the memory and the computer program code configured to, with the processor,
cause the apparatus to perform at least the following:

detecting a change in a subscription information of a subscriber; and
initiating a registration procedure for registering a terminal device of said
subscriber to a ~~new serving network element~~ S-CSCFn in response to a result of a
checking operation that has checked whether a capability of a ~~network element~~ S-
CSCFo serving said terminal device of said subscriber is still in accordance with said
changed subscription information and that has determined said result is that said
capability of said ~~network element~~ S-CSCFo serving said terminal device of said
subscriber is not still in accordance with said changed subscription information, and
wherein said ~~new serving network element~~ S-CSCFn is in accordance with said
changed subscription information.

34. (Currently Amended) An apparatus according to claim 32, wherein said
initiating further comprises initiating said registration procedure by initiating a selection
function to select said ~~new serving network element~~ S-CSCFn.

37. (Currently Amended) An apparatus, comprising:
a memory comprising computer program code; and
a processor;

the memory and the computer program code configured to, with the processor, cause the apparatus to perform at least the following:

registering a ~~serving network element~~ S-CSCFo providing session control services for said apparatus,

receiving a de-register message containing a cause information, which indicates a reason for the de-register message, the reason indicating that a result of a checking operation for checking a capability of the ~~serving network element~~ S-CSCFo indicates that the capability is not in accordance with a change in subscription information of a subscriber associated with the apparatus;

in response to said de-register message, initiating automatically a new initial registration procedure for registering said apparatus to a ~~new serving network element~~ S-CSCFn providing session control services for said apparatus, wherein the ~~new serving network element~~ S-CSCFn is in accordance with said changed subscription information.

40. (Currently Amended) An apparatus, comprising:

a memory comprising computer program code; and

a processor,

the memory and the computer program code configured to, with the processor, cause the apparatus to perform at least the following:

checking whether a capability of a current ~~serving network element~~ S-CSCFo serving a terminal device of a subscriber is still in accordance with a change in subscription information; and

in response to a result of the checking indicating the capability of the current ~~serving network element~~ S-CSCFo serving the terminal device of the subscriber is not still in accordance with the change in subscription information, performing a registration procedure for registering said terminal device to a new ~~serving network element~~ S-CSCFn that is in accordance with the change in subscription information.

41. (Currently Amended) An apparatus according to claim 40, wherein the memory and the computer program code are further configured to, with the processor, cause the apparatus to perform:

sending a registration authorization message to a subscriber database in response to a registration message for a new registration of said terminal device;

receiving in response to the registration authorization message a response message comprising capability information corresponding to the current ~~serving network element~~ S-CSCFo; and

using the capability information in the checking.

45. (Currently Amended) A computer program product comprising a non-transitory computer-readable memory medium bearing computer program code embodied therein for use with a computer, the computer program code comprising:

code for detecting a change in subscription information of a subscriber;
code for checking whether a capability of a ~~network element serving~~ S-CSCFo a terminal device of said subscriber is still in accordance with said changed subscription information; and

code for initiating, in response to a result of said checking being that said capability of said ~~network element serving~~ S-CSCFo serving said terminal device of said subscriber is not still in accordance with said changed subscription information, a registration procedure for registering said terminal device of said subscriber to a new ~~serving network element~~ S-CSCFn that is in accordance with said changed subscription information.

2. The following is an examiner's statement of reasons for allowance: The prior art of record neither explicitly disclose nor in combination teach checking the capability of a S-CSCF serving a terminal in accordance with change in subscription information of the subscriber and initiating, in response to the checking, a registration procedure to a new S-CSCF that is in accordance with the changed subscription information.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT B. MCADAMS whose telephone number is (571)270-3309. The examiner can normally be reached on Monday-Thursday 7am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/R. B. M./
Examiner, Art Unit 2456

/KEVIN BATES/
Primary Examiner, Art Unit 2456